

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Jeff PACE et al.,

Application No.: 09/605,654

Filed: June 28, 2000

For: **FUEL INJECTOR HAVING A MODIFIED SEAT
FOR ENHANCED COMPRESSED NATURAL GAS
JET MIXING**



7/a
[Signature]
Group Art Unit: 3752

Examiner: Kim, *9/22/01*

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RESPONSE TO RESTRICTION REQUIREMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

This is a reply to the Office Action mailed August 17, 2001, the period for replying extending through September 17, 2001. Please amend the application as follows:

IN THE CLAIMS:

Please replace claim 8 with the following:

- Ba*
[Signature]
8. (Amended) A spray pattern of fuel generated by a fuel injector having a fuel inlet, a fuel outlet, a fuel passageway extending from the fuel inlet to the fuel outlet along a longitudinal axis, a body, a needle slidably disposed within the body, a seat disposed at the fuel outlet, the seat having a plurality of passages, each of the plurality of passages having a central axis having an angle of inclination relative to the longitudinal axis, the spray pattern comprising:
- at least two portions of fuel, the fuel being combustible in a combustion chamber of an internal combustion engine, wherein a first portion includes a fan shape spray of fuel and the second portion includes at least one plume of fuel adjacent the fan shape spray.